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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/811,741	03/29/2004	Chuck Fai Lam	19672/00203	1676
26116	7590 01/06/2006		EXAMINER	
SIDLEY AUSTIN BROWN & WOOD LLP			KIM, PAUL D	
717 NORTH SUITE 3400	HARWOOD		ART UNIT	PAPER NUMBER
DALLAS, T			3729	
			DATE MAILED: 01/06/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)			
Office Action Summary		10/811,741	LAM ET AL.			
		Examiner	Art Unit			
		Paul D. Kim	3729			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
VVHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
2a)□	Responsive to communication(s) filed on This action is FINAL. 2b) This Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Dispositi	on of Claims					
5) □ 6) ⊠ 7) □ 8) □ Applicati	Claim(s) 14-21 is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 14-21 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examiner The drawing(s) filed on 29 March 2004 is/are: Applicant may not request that any objection to the content of the content o	vn from consideration. r election requirement. r. a)⊠ accepted or b)⊡ objected to	*			
11)	Replacement drawing sheet(s) including the correcti The oath or declaration is objected to by the Ex-		•			
	inder 35 U.S.C. § 119	animer. Note the attached Office	Action of form PTO-132.			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
2) 🔲 Notice 3) 🔯 Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date 3/29/04	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

DETAILED ACTION

Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following title is suggested: --A METHOD OF FABRICATING A MAGNETIC HEAD CLUSTER--.

2. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required:

Re. Claim 16: The limitation "measuring the resistance of the at least one resistive element" as recited in lines 2-3 does not disclose in the specification.

Re. Claim 19: The limitation "measuring the resistance of the at least one of the plurality of resistive elements" as recited in lines 2-3 does not disclose in the specification.

Claim Objections

- 3. Claims 15-21 are objected to because of the following informalities:
- Re. Claims 15-21: Change the phrase "A method" as recited in line 1 appears to be –The method--.
- Re. Claim 16: The phrase "the resistance" as recited in line 2 appears to be a resistance--.

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Re. Claim 17: The phrase "the resistance elements" as recited in line 4 is not clear. According to claim 1, there is at least one resistive element, not the resistive elements. The at least one resistive element could be one resistive element.

Re. Claim 19: The limitation "the plurality of resistive elements" recited in line 2 appears to be –a plurality of resistive elements--.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 14-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Applicant Admitted Prior Art (APA).

APA teaches a process of making a magnetic head cluster comprising steps of: providing a substrate (110) as shown in Fig. 1; forming at least two transducer elements (100) on a surface of the substrate as shown in Fig. 2; and forming at least one resistive element (175) on the surface of the substrate between two of the at least two transducer elements as shown in Figs. 1 and 2 (see also from pages 2-4 of the specification).

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As per claim 15 an edge portion of the magnetic head cluster is lapped as shown in Fig. 4.

As per claims 16, 17, 19 and 20 APA also teaches that the lapping is performed until the resistance of at least one of the resistive elements reaches a specified resistance. Inherently, a resistance of the at least one resistive element is previously measured and known as an initial resistance. Therefore, the lapping is performed until the resistance of at least one of the resistive element reaches a desired resistance.

As per claim 18 a plurality of resistive elements (two of the resistive elements), and wherein each of the plurality of resistive elements is formed on the surface of the substrate between two of the at least two transducer elements as shown in Figs. 1 and 2.

6. Claims 14-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Li et al. (US PAT. 5,738,566).

Li et al. teach a process of making a magnetic head cluster comprising steps of: providing a substrate (10) as shown in Fig. 1; forming at least two transducer elements (23a,23b) on a surface of the substrate as shown in Figs. 2 and 3; and forming at least one resistive element (20) on the surface of the substrate between two of the at least two transducer elements as shown in Figs. 2 and 3 (see also col. 3, line 21 to col. 4, line 10).

As per claim 15 an edge portion of the magnetic head cluster is lapped as shown in Fig. 3.

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As per claims 16, 17, 19 and 20 Li et al. also teach that the lapping is performed until the resistance of at least one of the resistive elements (20) reaches a specified throat height (equivalent with a resistance) of the transducer. Inherently, a resistance of the at least one resistive element is previously measured and known as an initial resistance. Therefore, the lapping is performed until the resistance of at least one of the resistive element reaches a desired resistance.

As per claim 18 a plurality of resistive elements (two of the resistive elements), and wherein each of the plurality of resistive elements is formed on the surface of the substrate between two of the at least two transducer elements as shown in Figs. 2 and 3.

As per claim 21 at least one of the plurality of resistive elements (20) is an electronic lapping guide (ELG).

7. Claims 14-21 are rejected under 35 U.S.C. 102(e) as being anticipated by Reiley et al. (US PAT. 6,699,102).

Reiley et al. teach a process of making a magnetic head cluster comprising steps of: providing a substrate (44) as shown in Fig. 1; forming at least two transducer elements (26) on a surface of the substrate as shown in Fig. 2; and forming at least one resistive element (32) on the surface of the substrate between two of the at least two transducer elements as shown in Fig. 2 (see also col. 4, line 24 to col. 5, line 27).

As per claim 15 an edge portion (16) of the magnetic head cluster is lapped as shown in Fig. 1.

As per claims 16, 17, 19 and 20 Reiley et al. also teach that the lapping is performed until the resistance (a height, h) of at least one of the resistive elements (20) reaches a specified height (equivalent with a resistance) of the transducer. Inherently, a resistance (a height) of the at least one resistive element is previously measured and known as an initial resistance. Therefore, the lapping is performed until the resistance (the height) of at least one of the resistive element reaches a desired resistance (col. 4, lines 47-52).

As per claim 18 a plurality of resistive elements (two of the resistive elements), and wherein each of the plurality of resistive elements is formed on the surface of the substrate between two of the at least two transducer elements as shown in Fig. 2.

As per claim 21 at least one of the plurality of resistive elements (26) is an electronic lapping guide (ELG).

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul D. Kim whose telephone number is 571-272-4565. The examiner can normally be reached on Monday-Friday between 7:00 AM to 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 571-272-4690. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Paul D Kim

Examiner

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